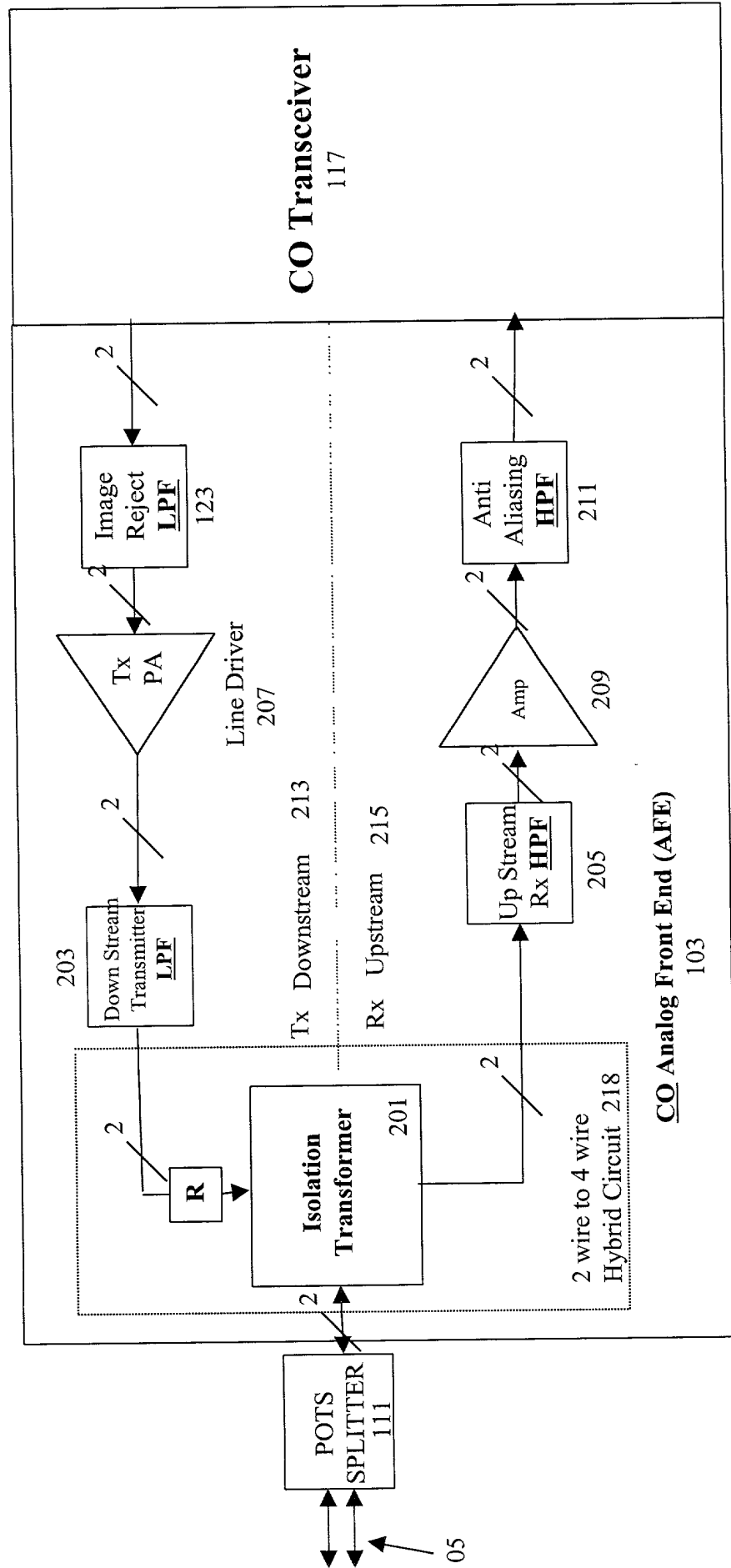


PRIOR ART

FIG. 1a

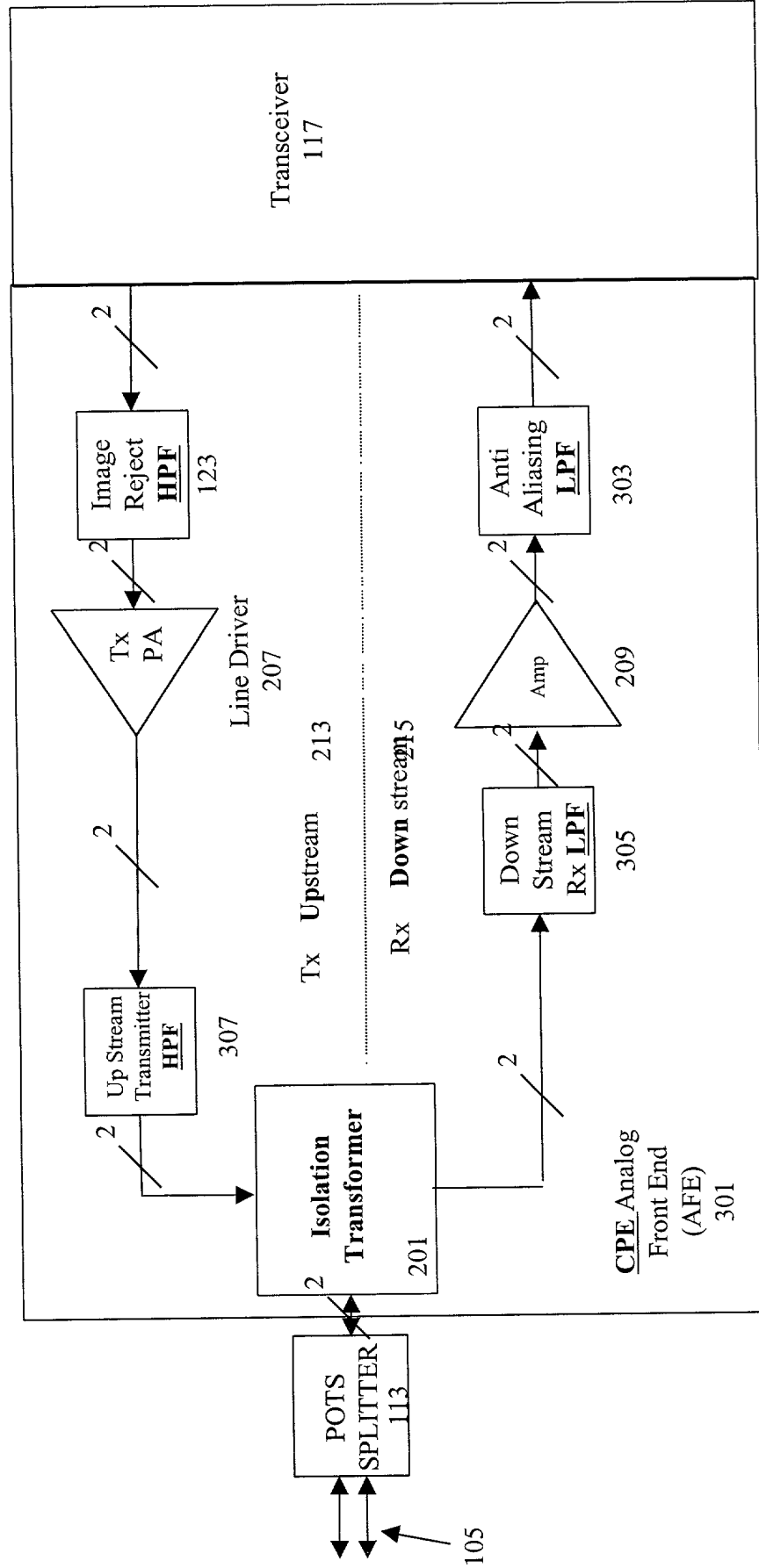
FIG. 1 Balanced CO AFE PRIOR ART



xDSL CARD for CO

FIG. 2

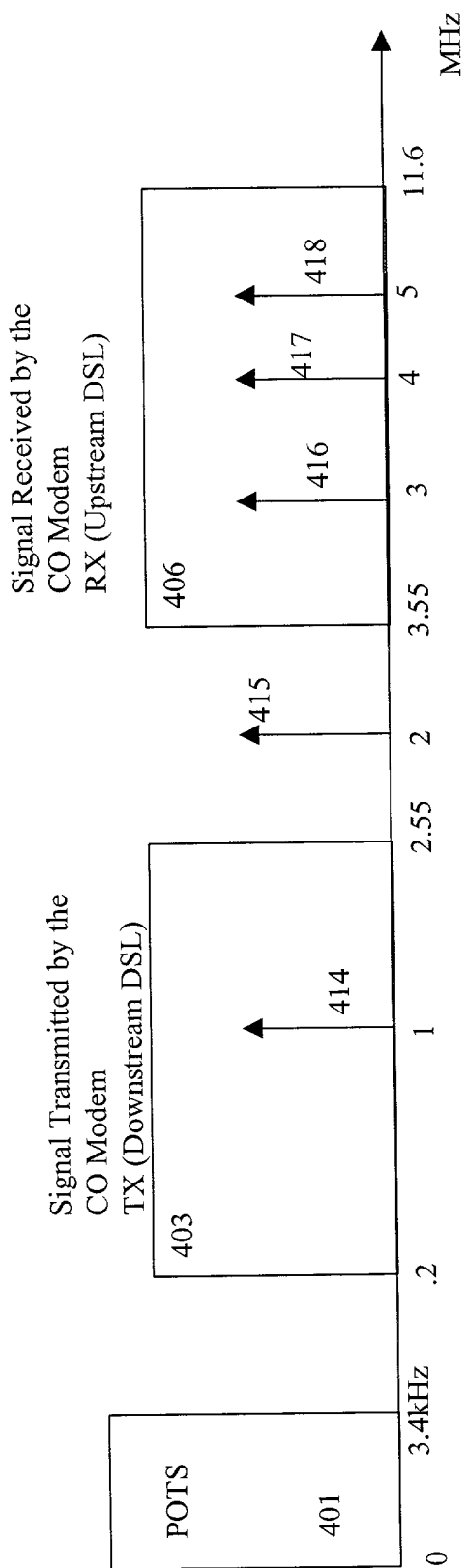
Balanced CPE AFE PRIOR ART



xDSL CARD for CPE

FIG. 3

CO Modem 400



CPE Modem 413

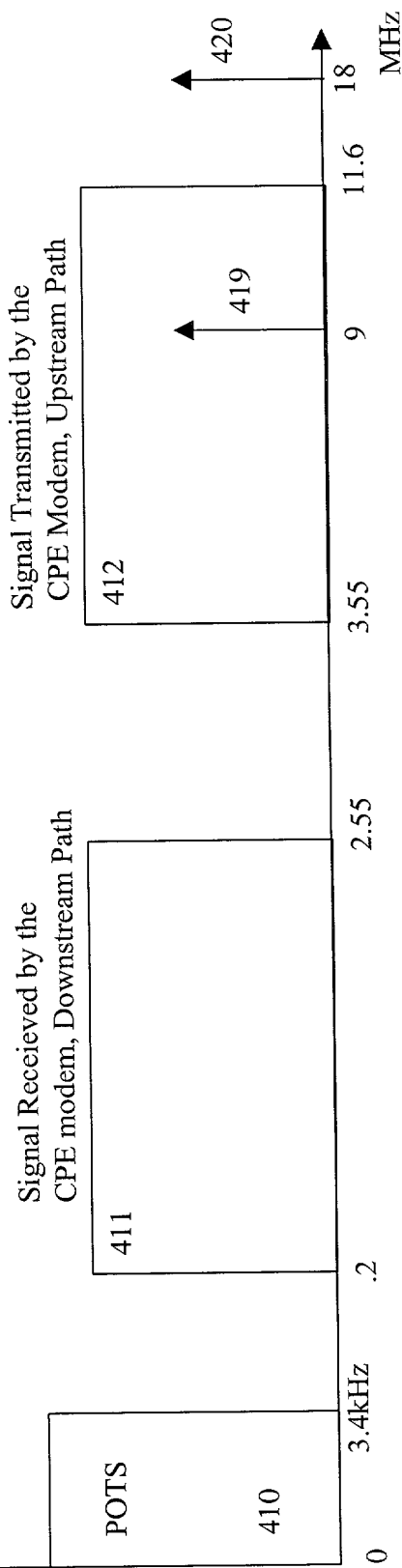
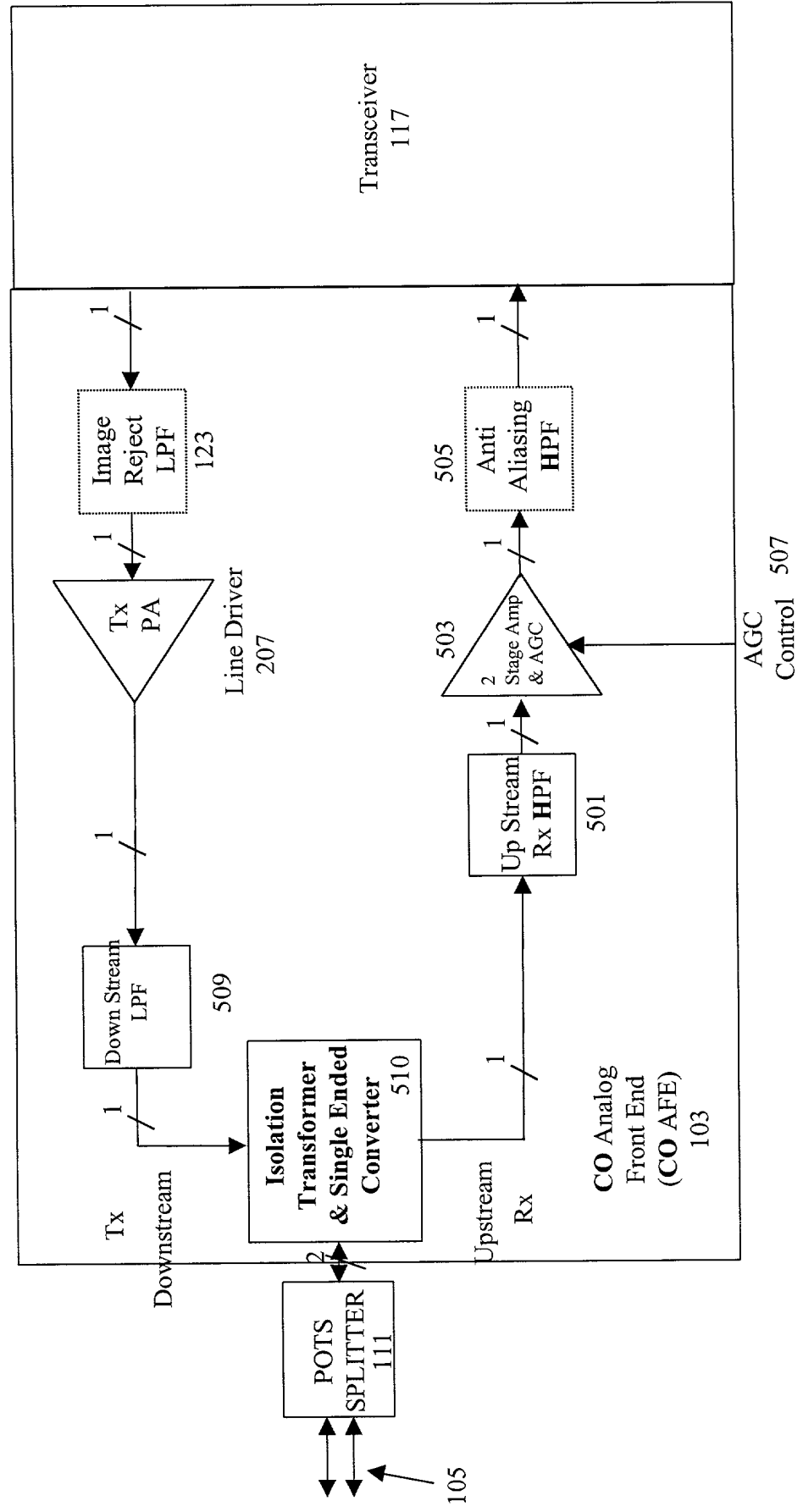


FIG. 4

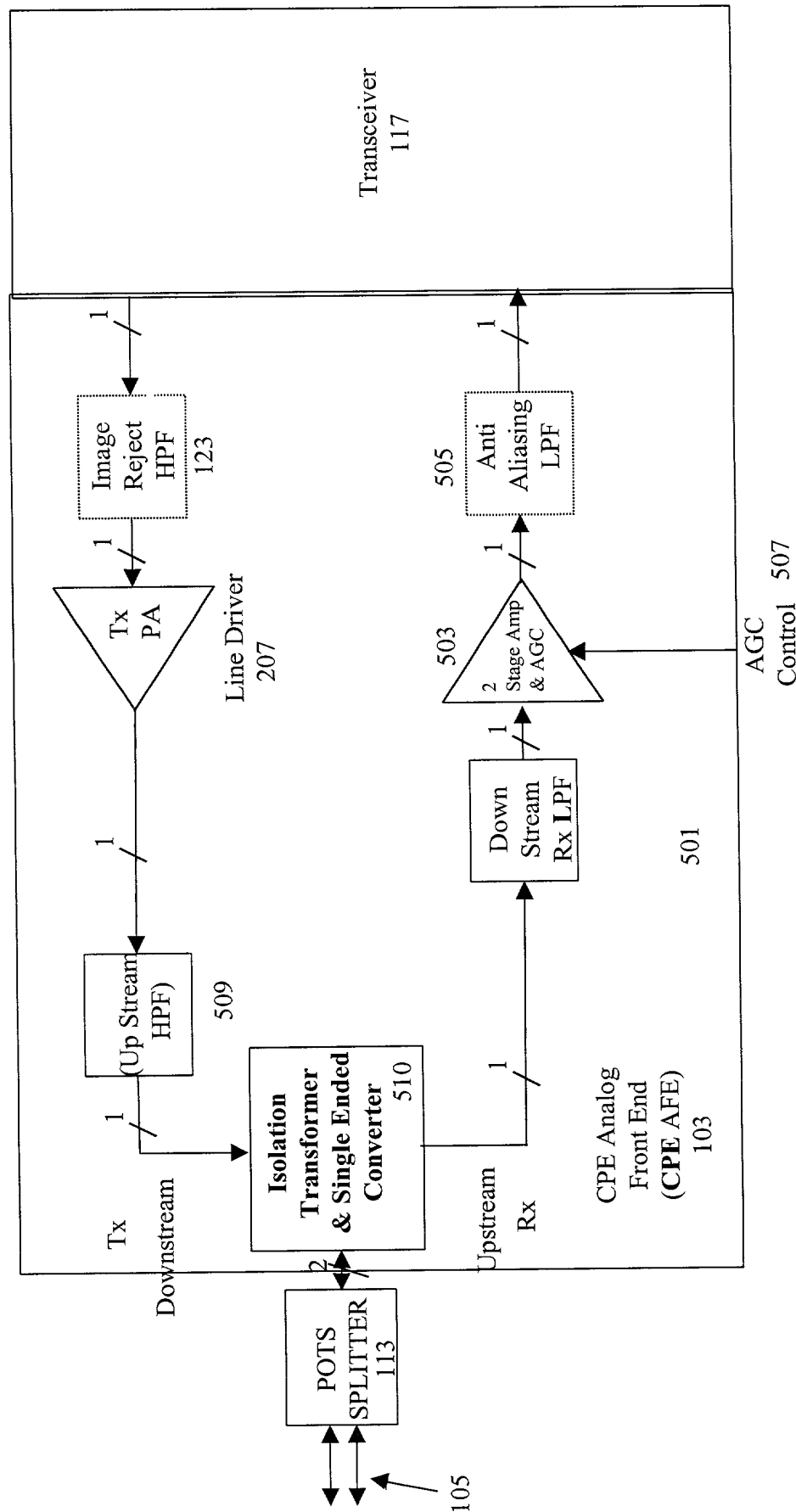
Single Ended CO AFE



xDSL CARD for CO

FIG. 5a

Single Ended CPE AFE



xDSL CARD for CPE

FIG. 5b

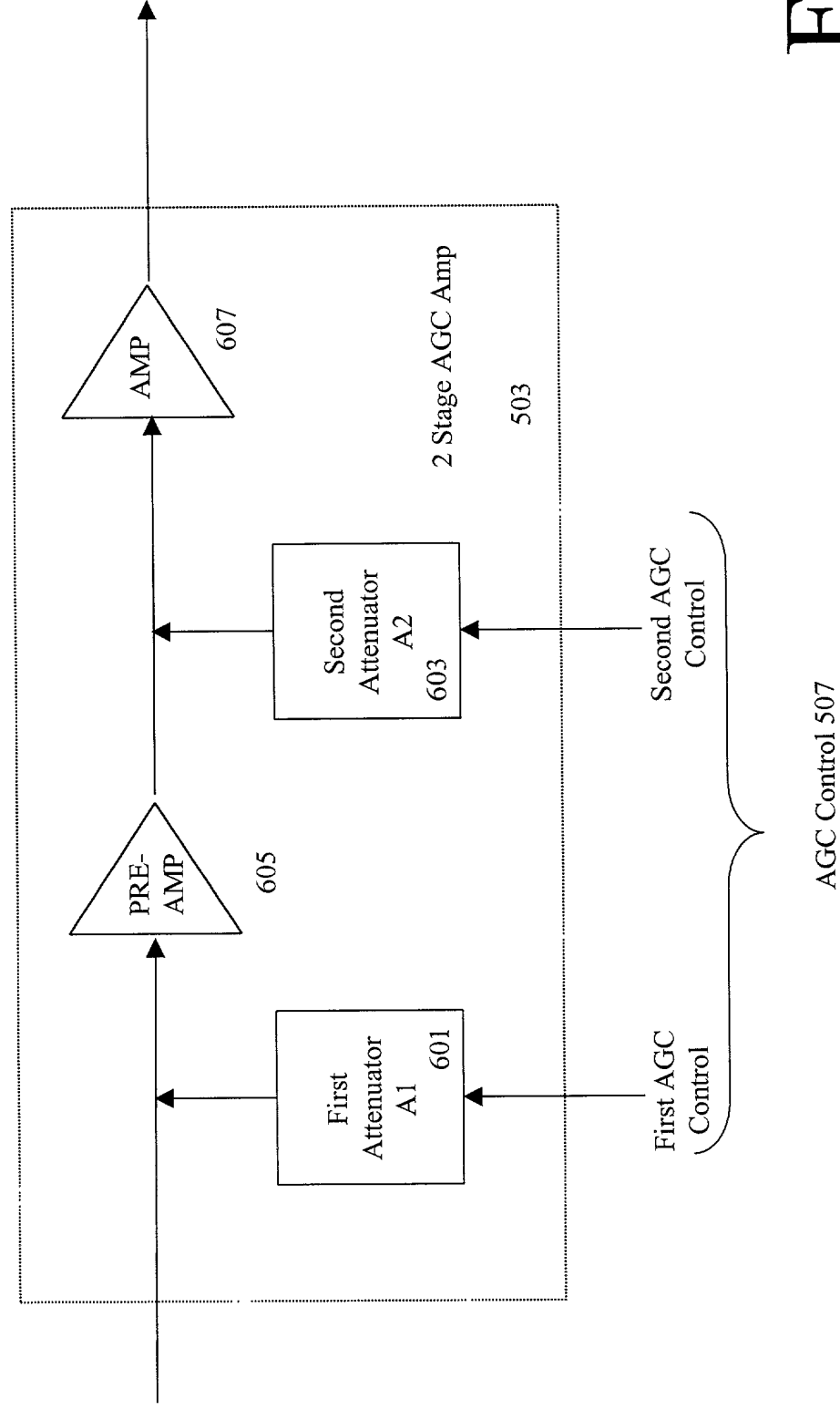
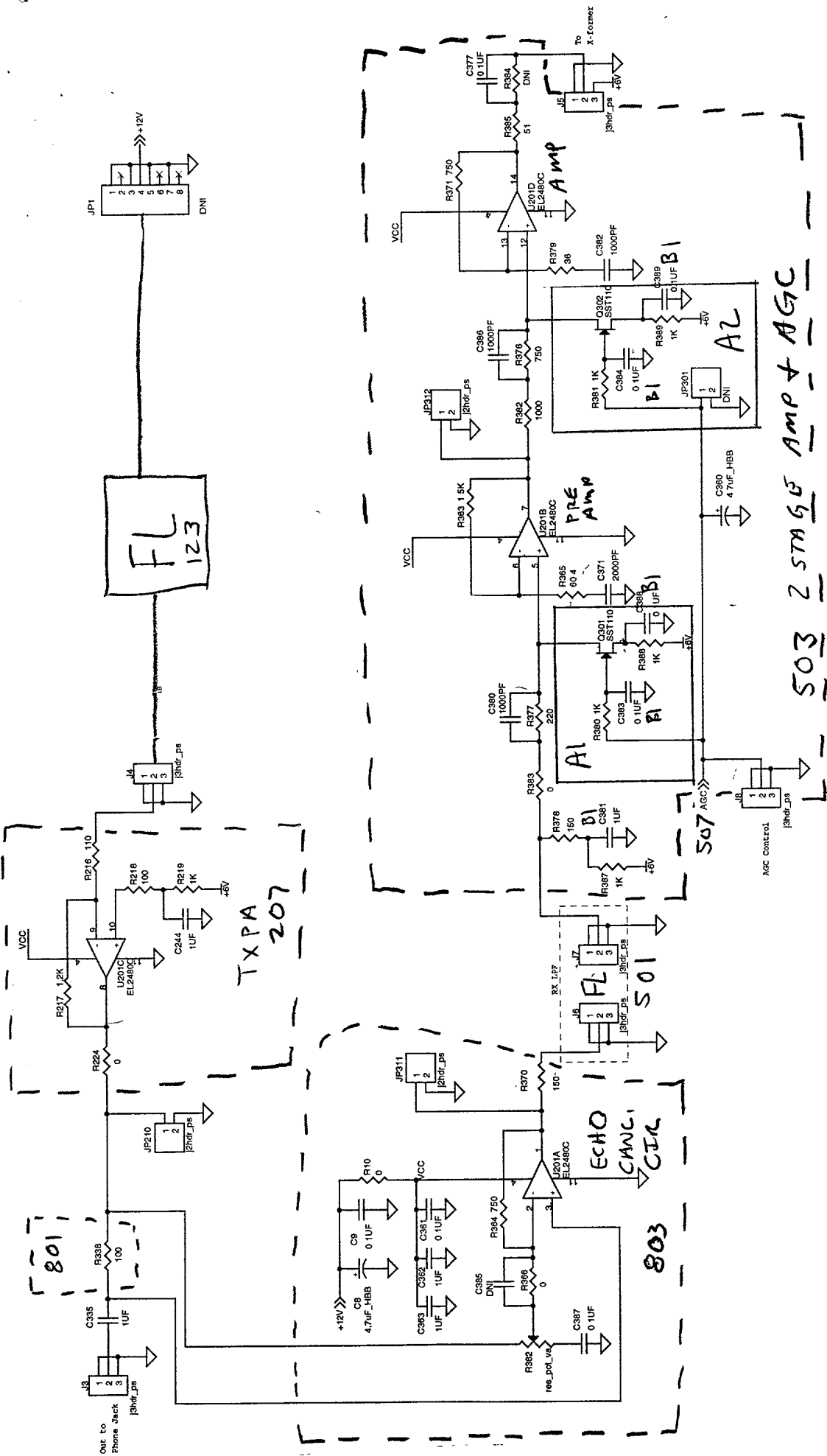
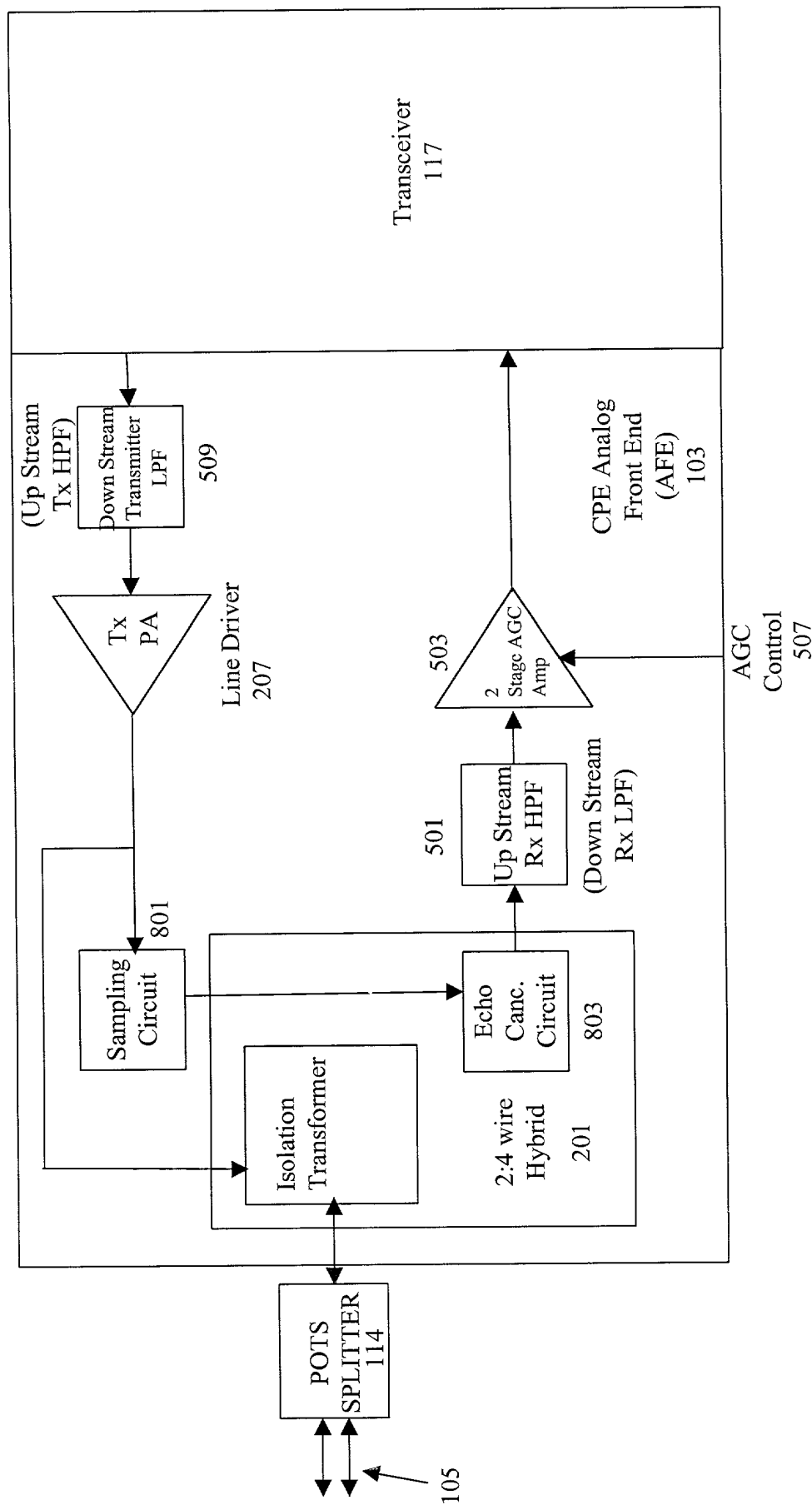


FIG. 6

Variable	Mean	SD	Min	Max
Age	34.5	10.2	21	55
Gender	0.5	0.5	0	1
Marital Status	0.3	0.5	0	1
Education	12.5	1.5	9	16
Income	3500	1500	1000	8000
Health Status	0.7	0.4	0	1
Exercise Frequency	2.5	1.5	0	5
Stress Level	4.5	1.5	1	7
Sleep Quality	3.5	1.5	1	6
Dietary Habits	2.5	1.5	0	5
Work Hours	40	5	30	50
Family Size	2.5	1.5	1	5
Home Ownership	0.6	0.5	0	1
Commute Time	25	10	10	45
Neighborhood Safety	4.5	1.5	1	7
Access to Healthcare	5.5	1.5	3	7
Community Involvement	3.5	1.5	1	6
Overall Life Satisfaction	4.5	1.5	1	7



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xDSL CARD for CO (CPE)

FIG. 8

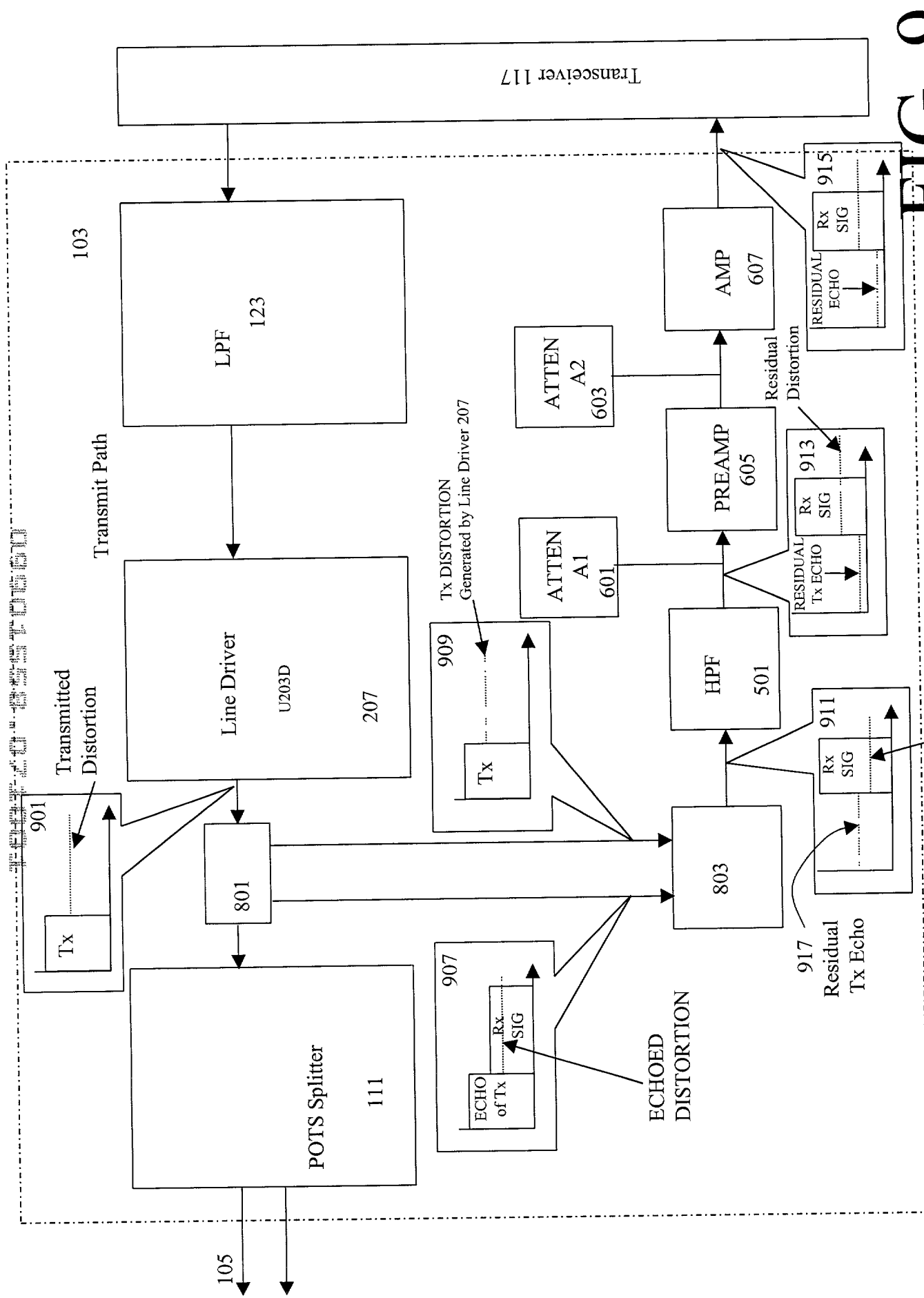
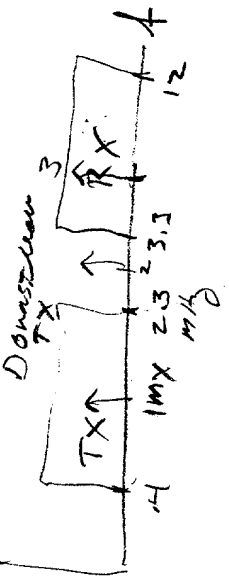


FIG. 9

CUSTOMER PREMISE EQUIPMENT (CO) SIDE AFE 919 Residual transmitter Echo Distortion

TOP SECRET

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CPE SIDE
Figure 4 - xDSL Typical Block Diagram

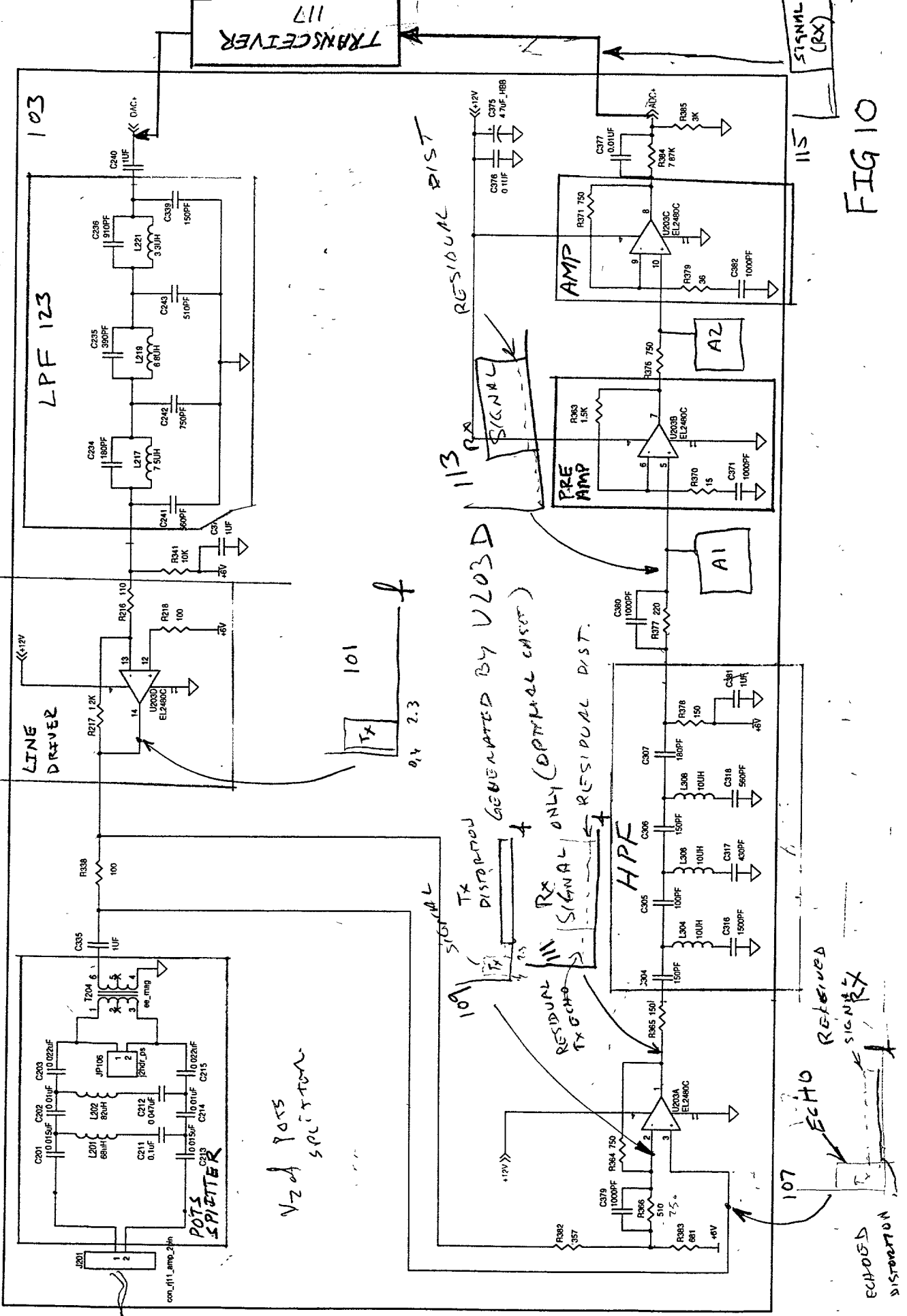
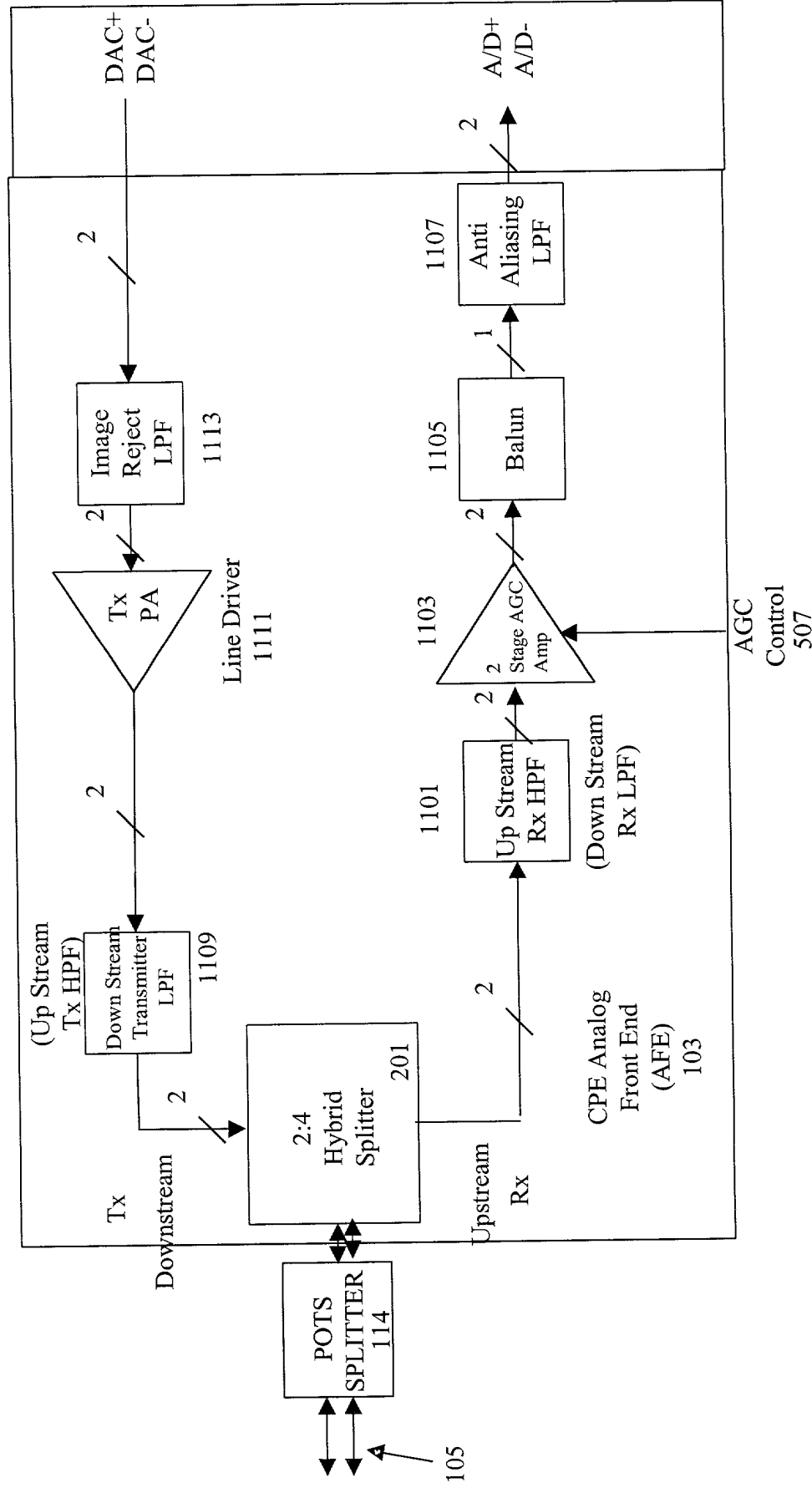


FIG 10

FIG. 10 LIGHTNING INSENSITIVE AFE (BPF) EMBODIMENT

Transceiver
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xDSL CARD for CO (CPE)

Lightning Insensitive Version

FIG. 11

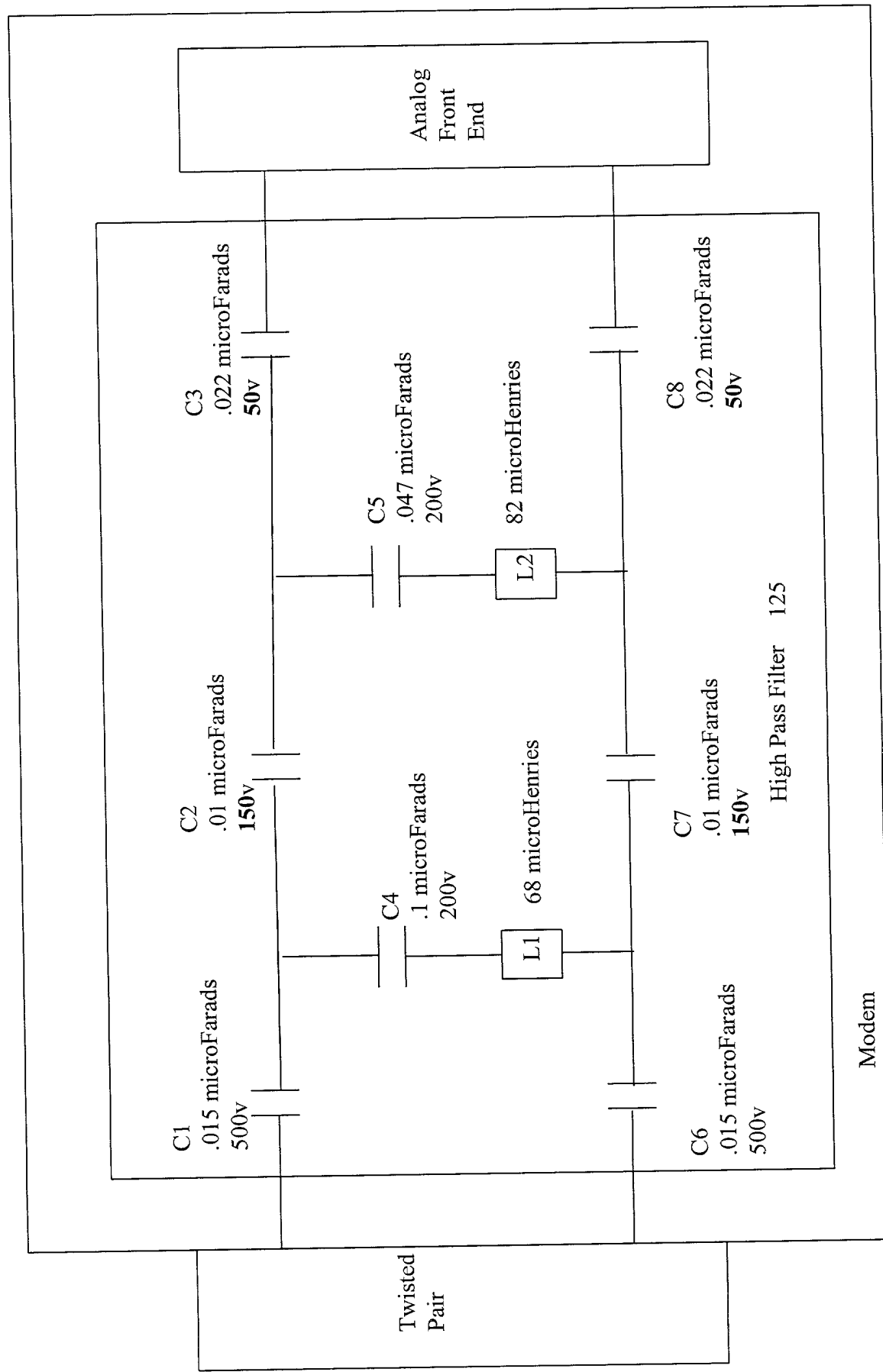


FIG.12

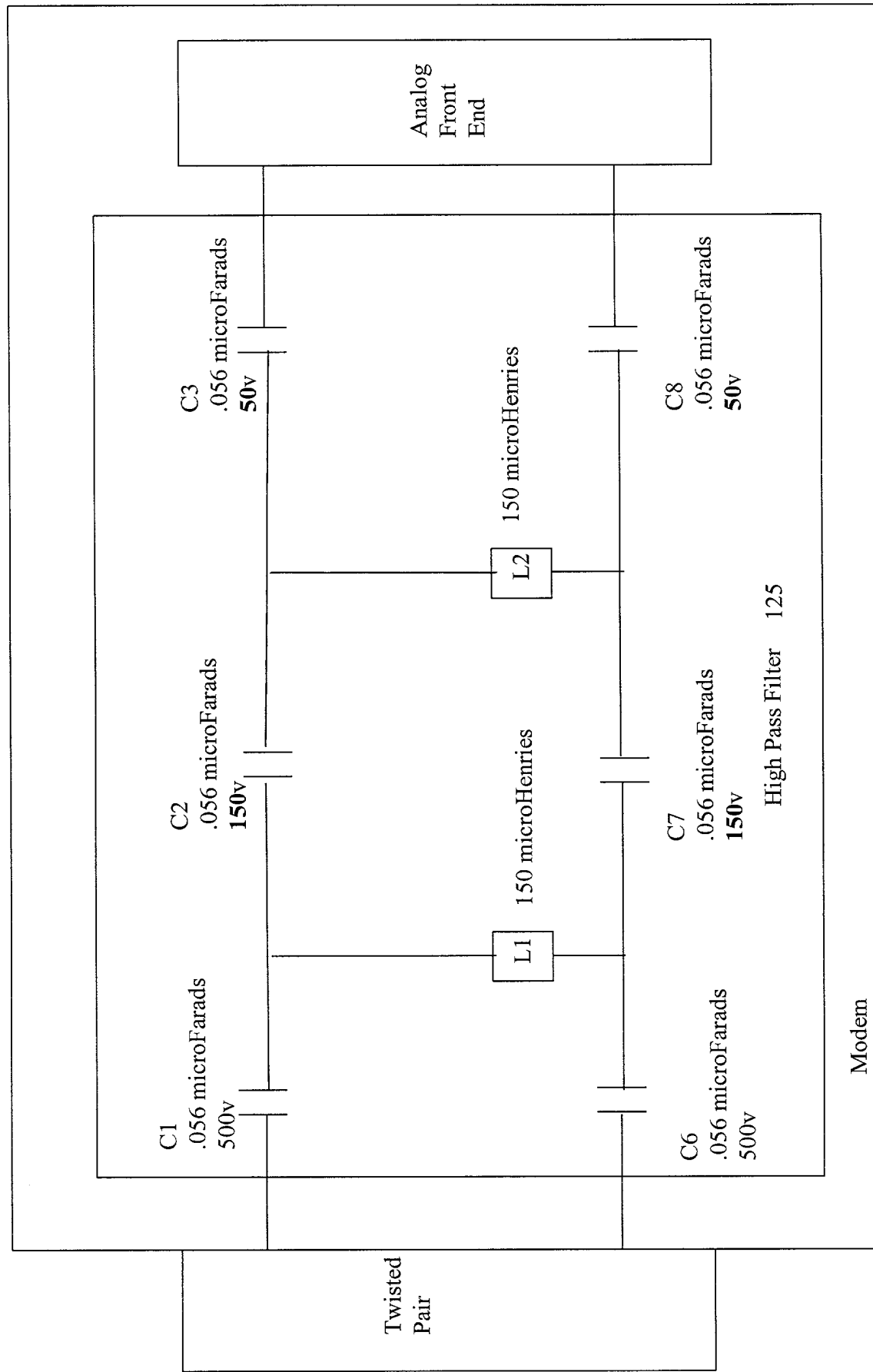


FIG.13

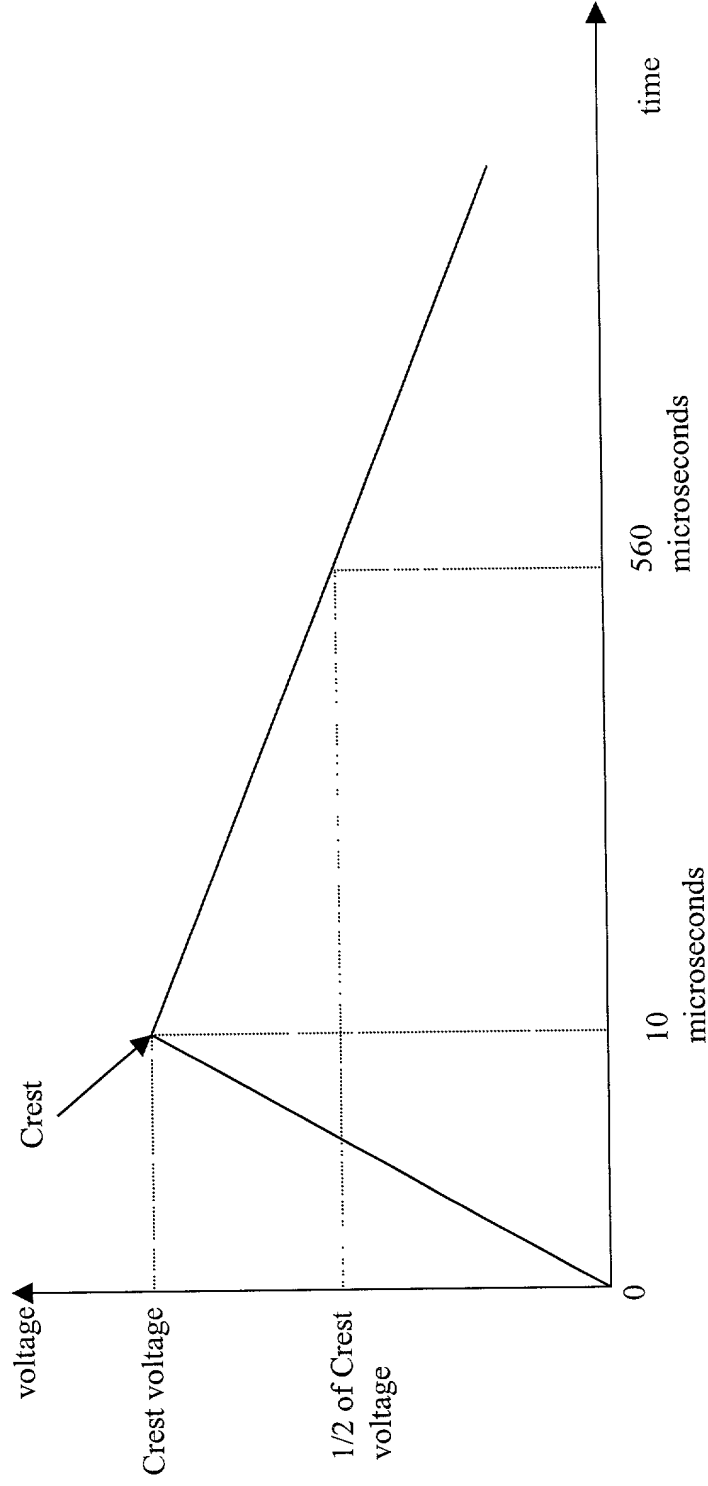


FIG. 14

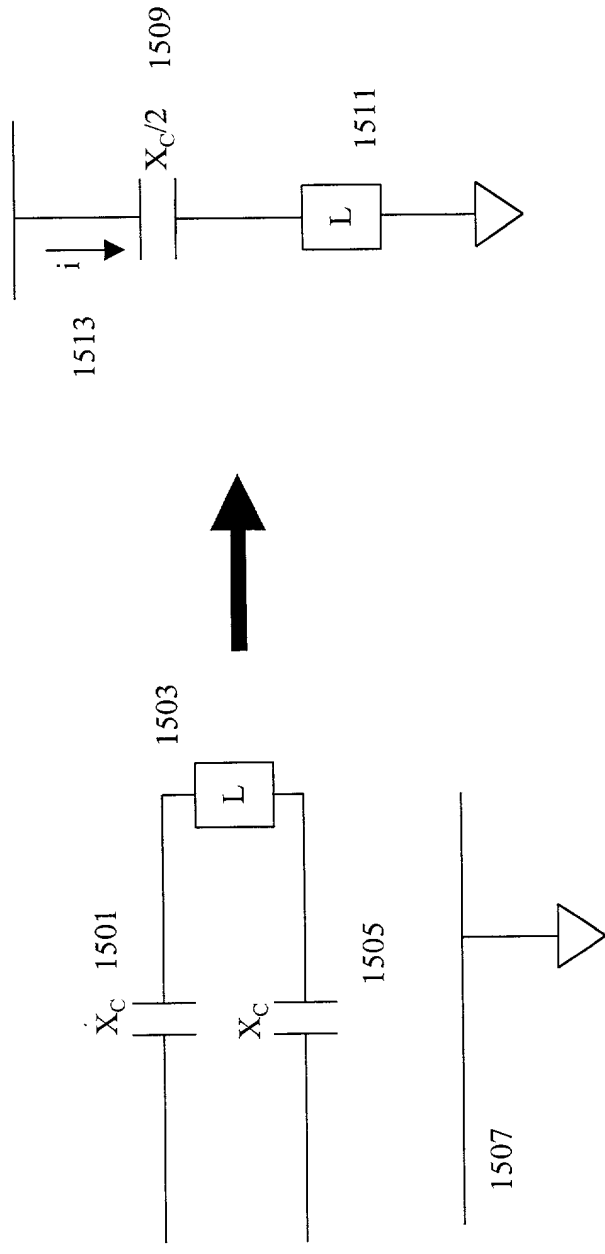


FIG. 15